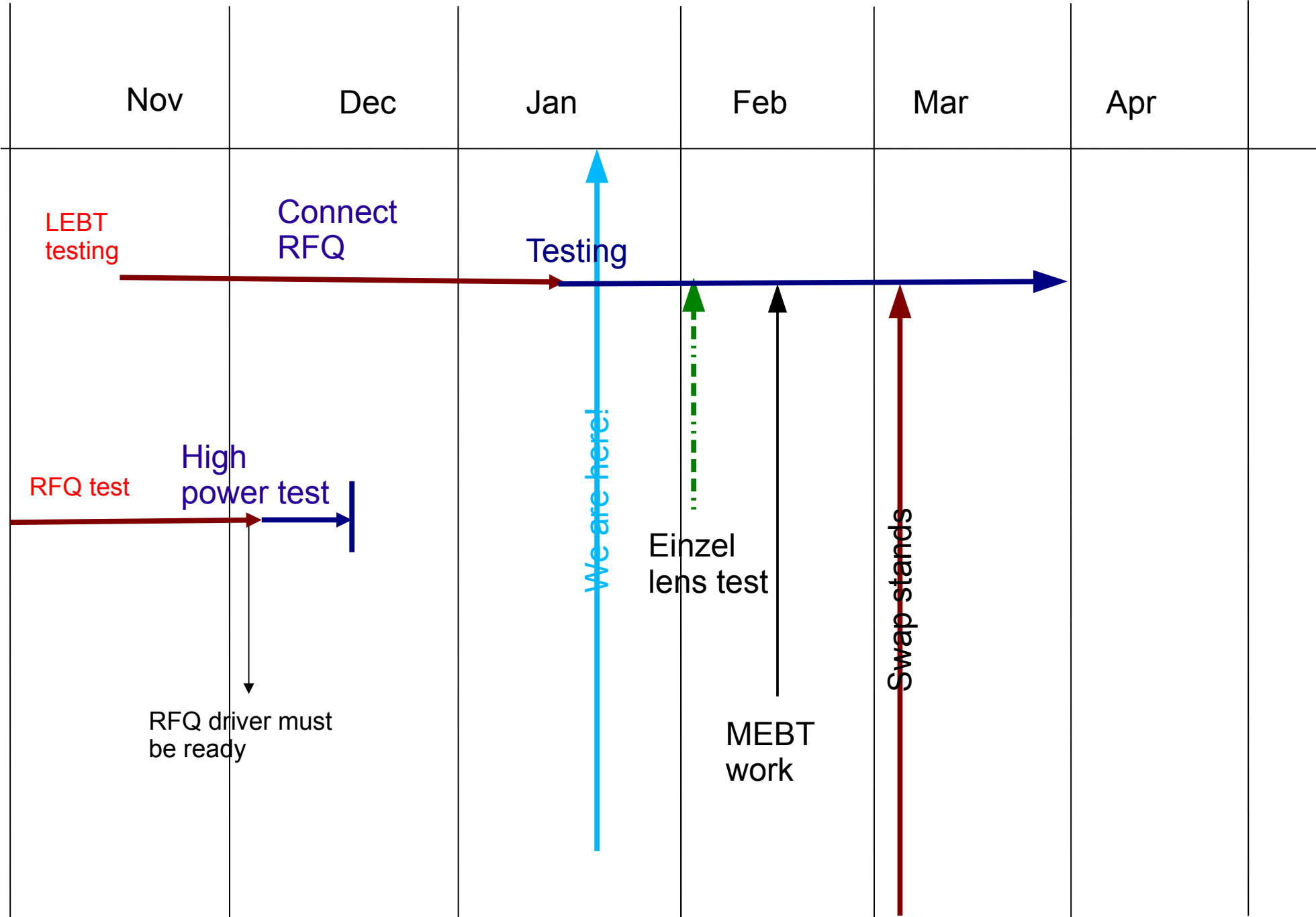


Pre-injector Upgrade Updates (04 Jan 2012 – 18 Jan 2012)

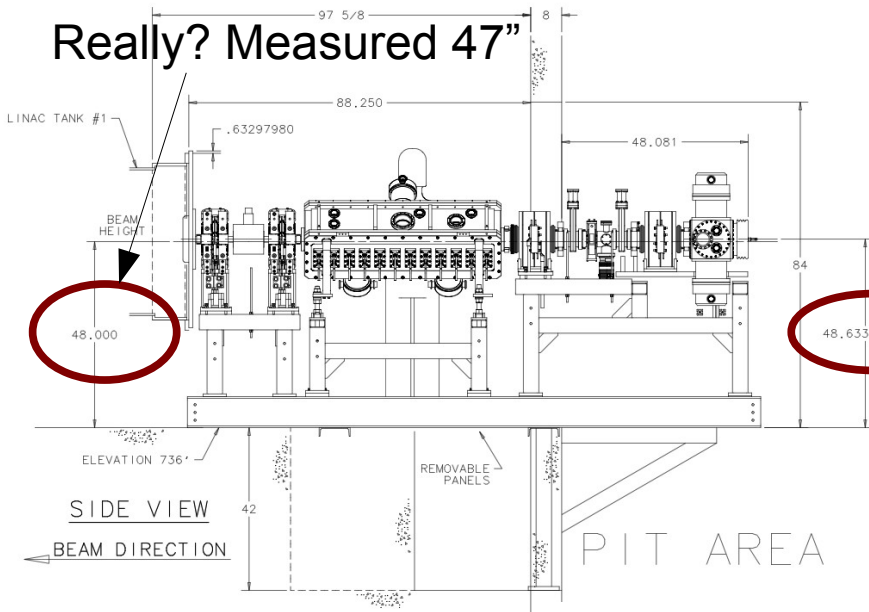
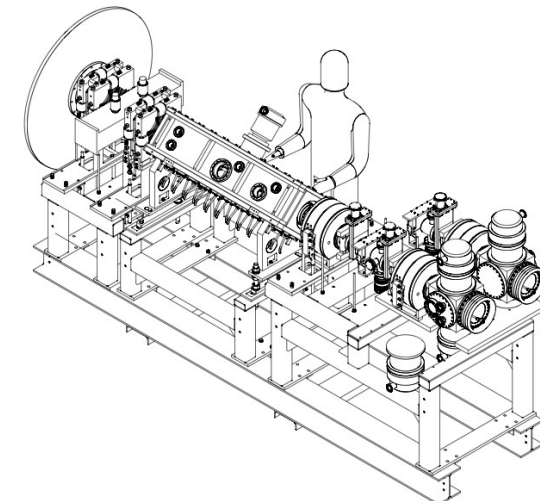
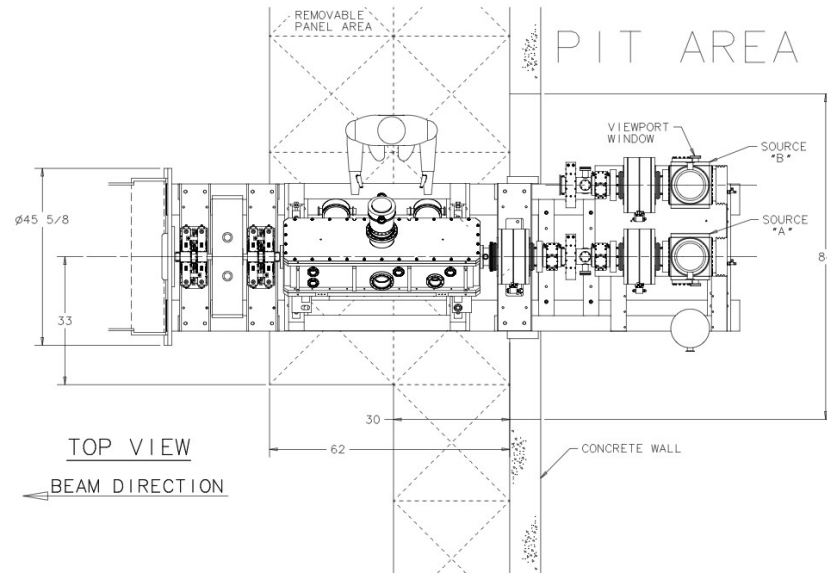
C.Y. Tan
18 Jan 2012



Plans

- Finish TOF measurements
- Emittance probe measurements (start 23 Jan)
- Einzel lens measurements (start 30 Jan)

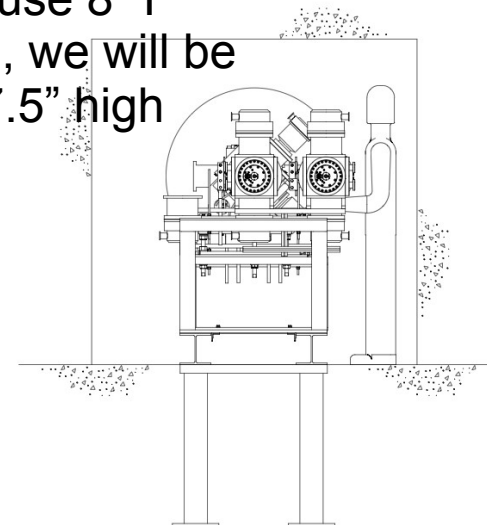
REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE



If we use 8" I beam, we will be $\geq 47.5"$ high

PREACCELERATOR PRELIMINARY LAYOUT

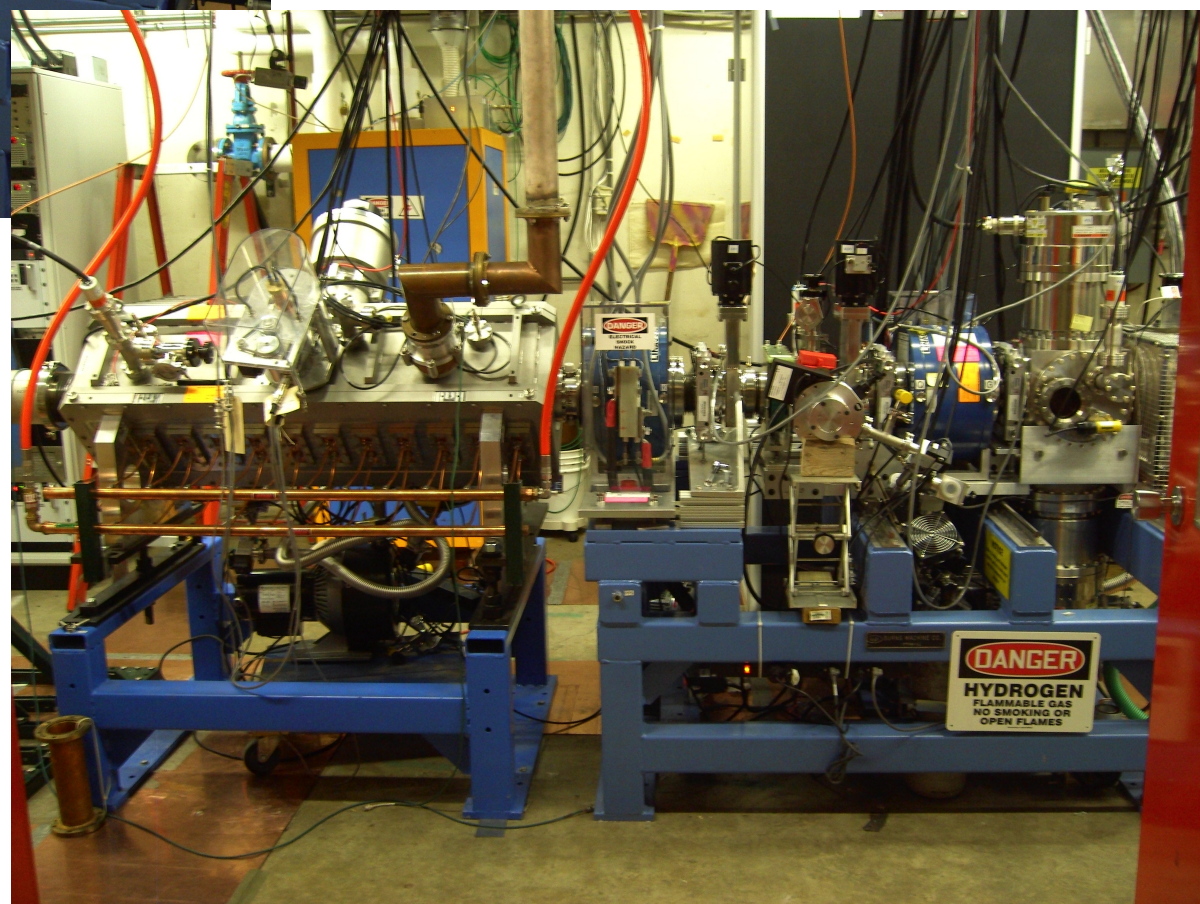
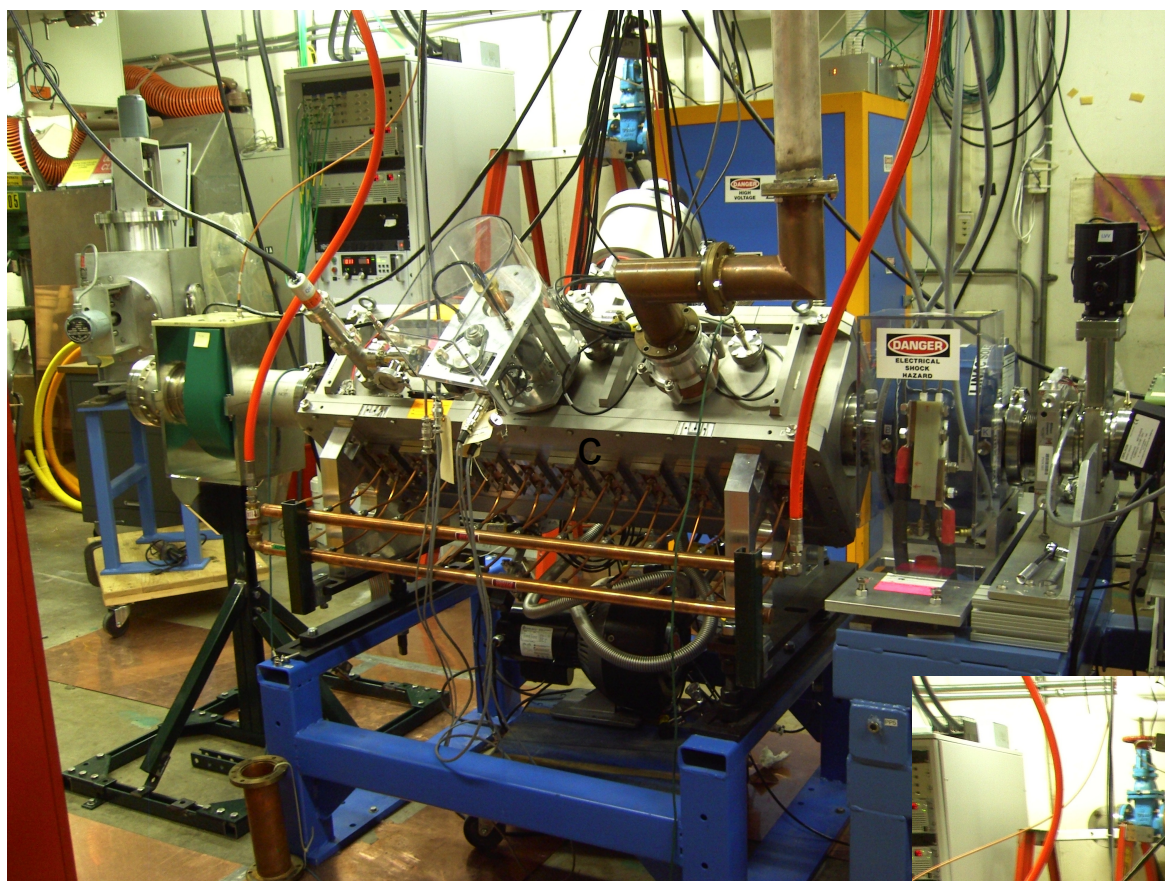
APRIL 27, 2011



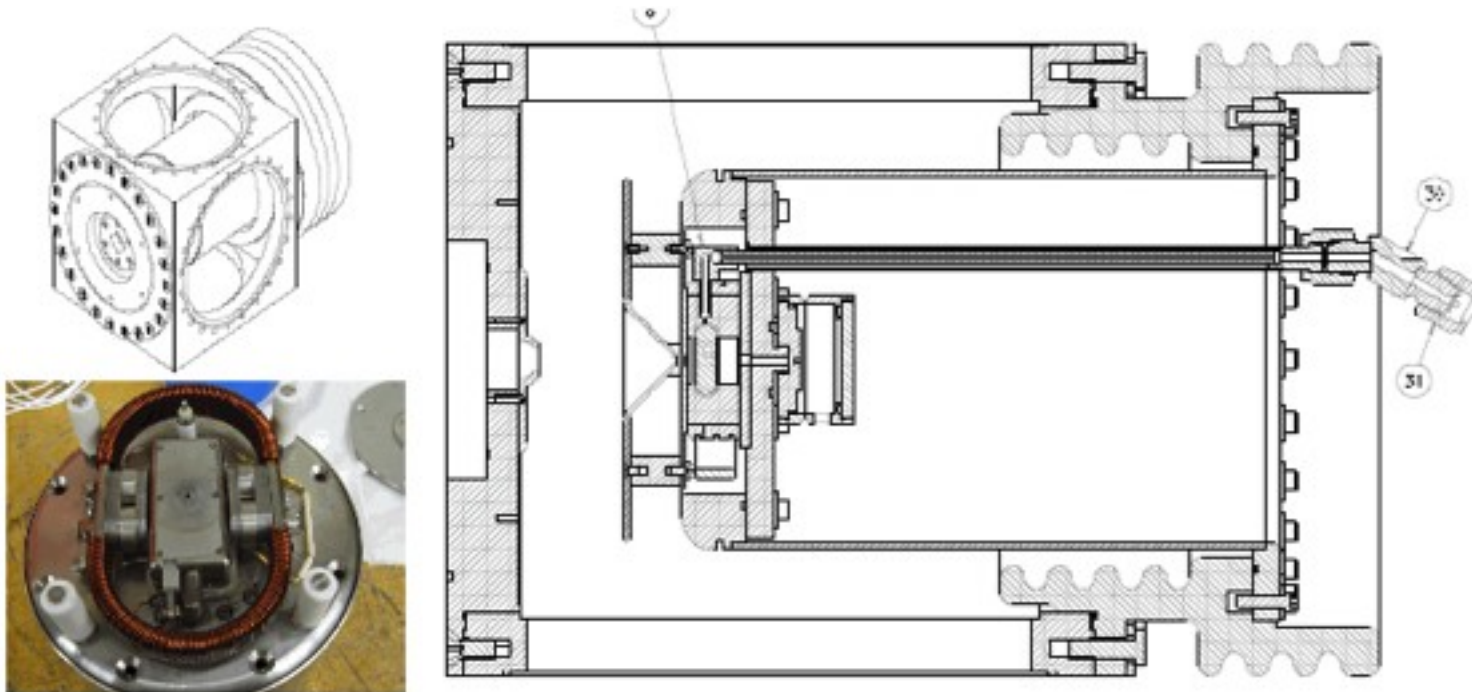
UNLESS OTHERWISE SPECIFIED			ORIGINATOR	
+	+	+	DRAWN	
			CHECKED	
			APPROVED	
1. BREAK ALL SHARP EDGES			USED ON	
2. DO NOT SCALE DRAWING				
3. DIMENSIONS BASED UPON				
4. MAX. ALL MACH. SURFACES			MATERIAL	
5. DRAWING UNITS: U.S. INCH				
FERMI NATIONAL ACCELERATOR LABORATORY UNITED STATES DEPARTMENT OF ENERGY				
SCALE	DRAWING NUMBER		SHEET	REV
			1 OF 1	
CREATED WITH :			GROUP :	

Latest

- RFQ connected to LEBT
 - Survey and alignment complete 05 Jan.
- Vacuum meeting (05 Jan)
 - 2 new Varian turbos to give 750 L/s in LEBT.
 - New Edwards turbos in the source fore lines.
 - Vacuum control rack will need to be reshuffled to fit.

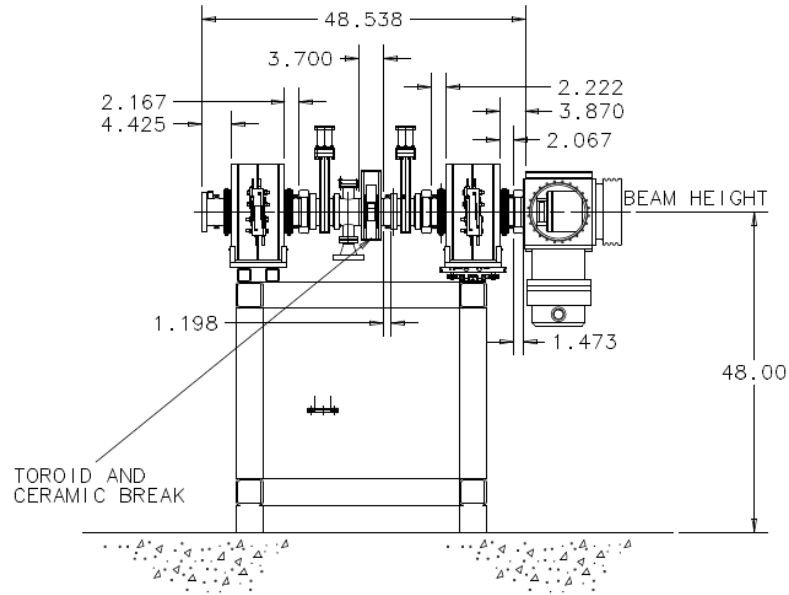


Source Status



Device	Status	Comments
Source	Tuning continues ... Problem with extractor	Lowered cesium level, reduced sparking. 6 Jan Leading edge jitters ... investigating 17 Jan

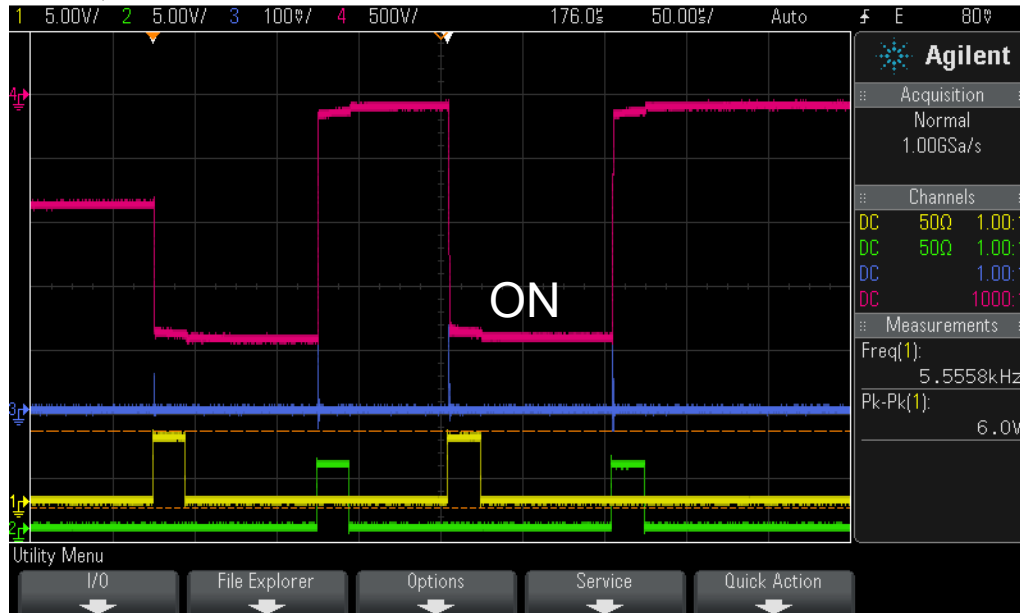
LEBT Status



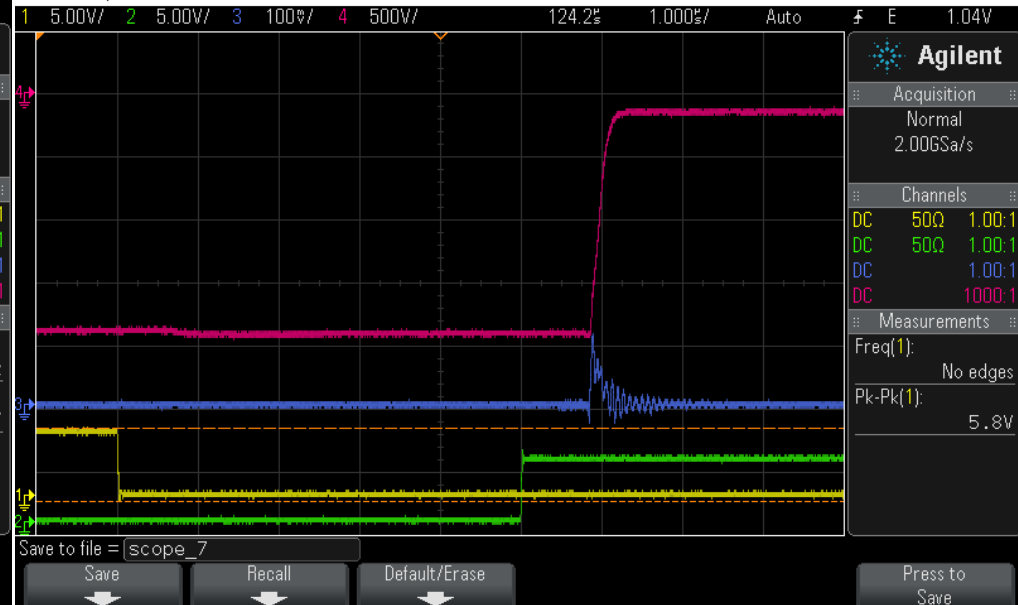
Device	Status	Comments
New slide	being designed	Expect to have by end of Feb 2012
Chopper box	Sent out for manufacture	Expect to have by end of Jan 2012
Solid state switches	Initial tests successful	200 ns rise time, 3kV input switched.
Problem with pulser	Bad transistor	Fixed 17 Jan

DTI switch tests

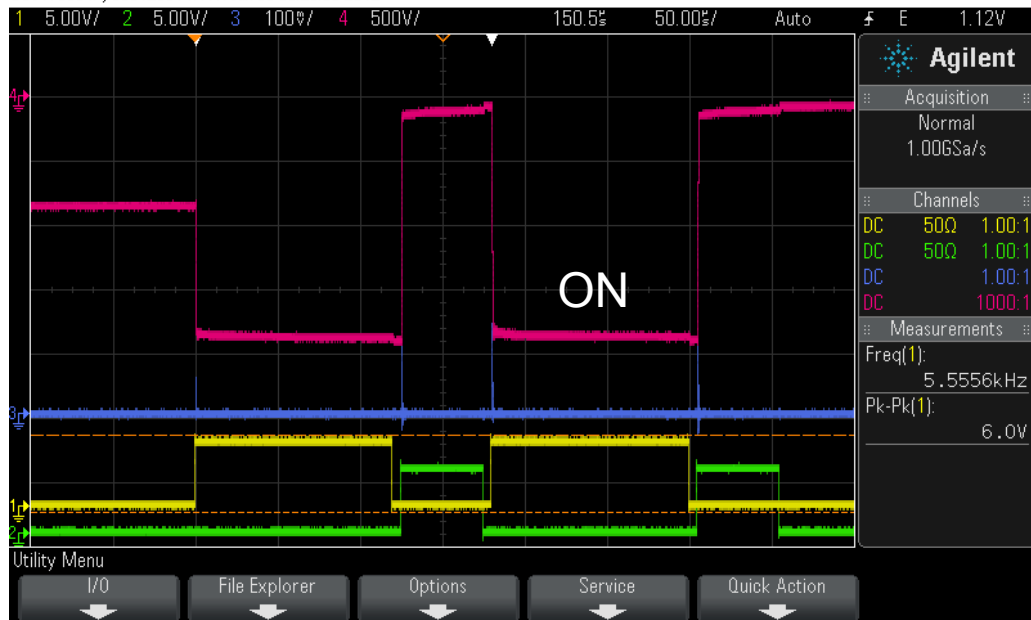
DSO-X 3034A, SG51290147: Fri Jan 06 02:52:02 2012



DSO-X 3034A, SG51290147: Fri Jan 06 03:32:24 2012



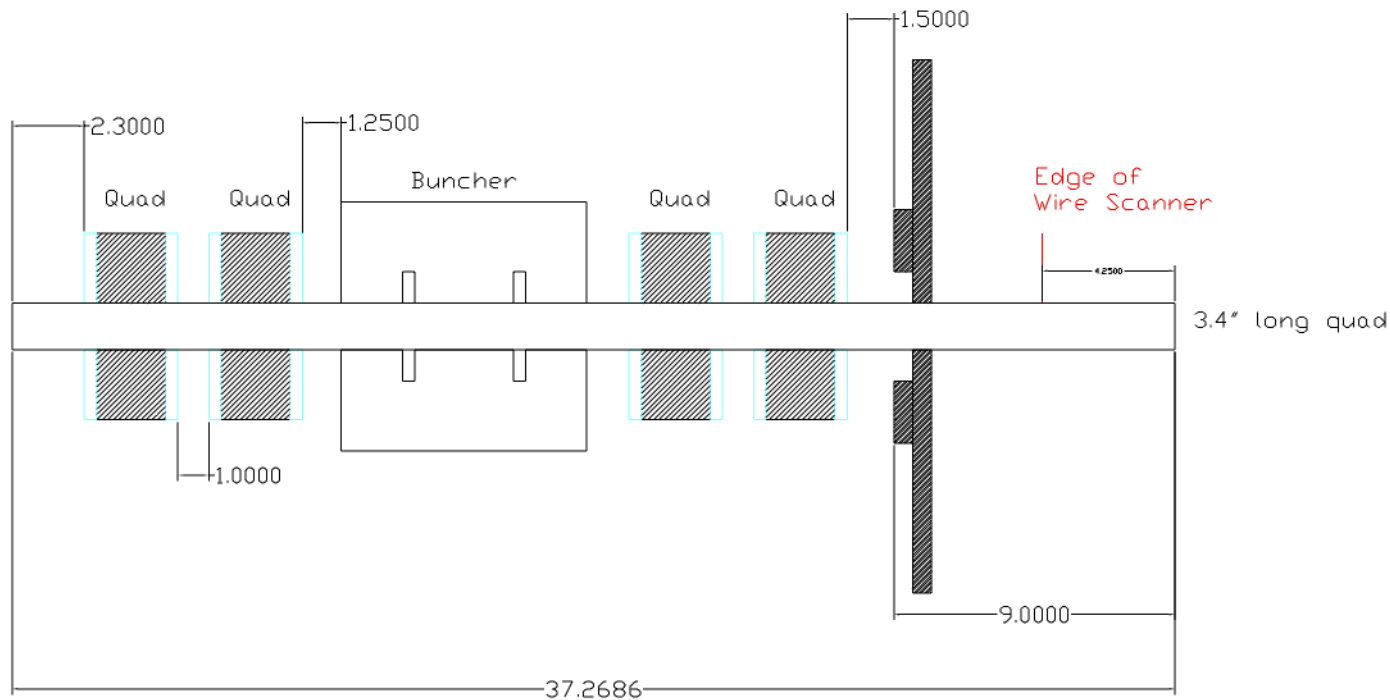
DSO-X 3034A, SG51290147: Fri Jan 06 03:29:58 2012



DSO-X 3034A, SG51290147: Fri Jan 06 03:31:08 2012



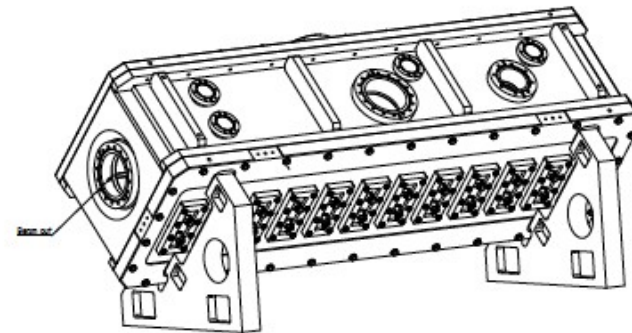
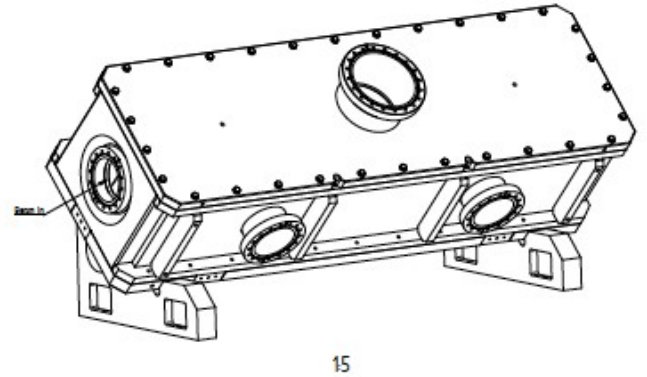
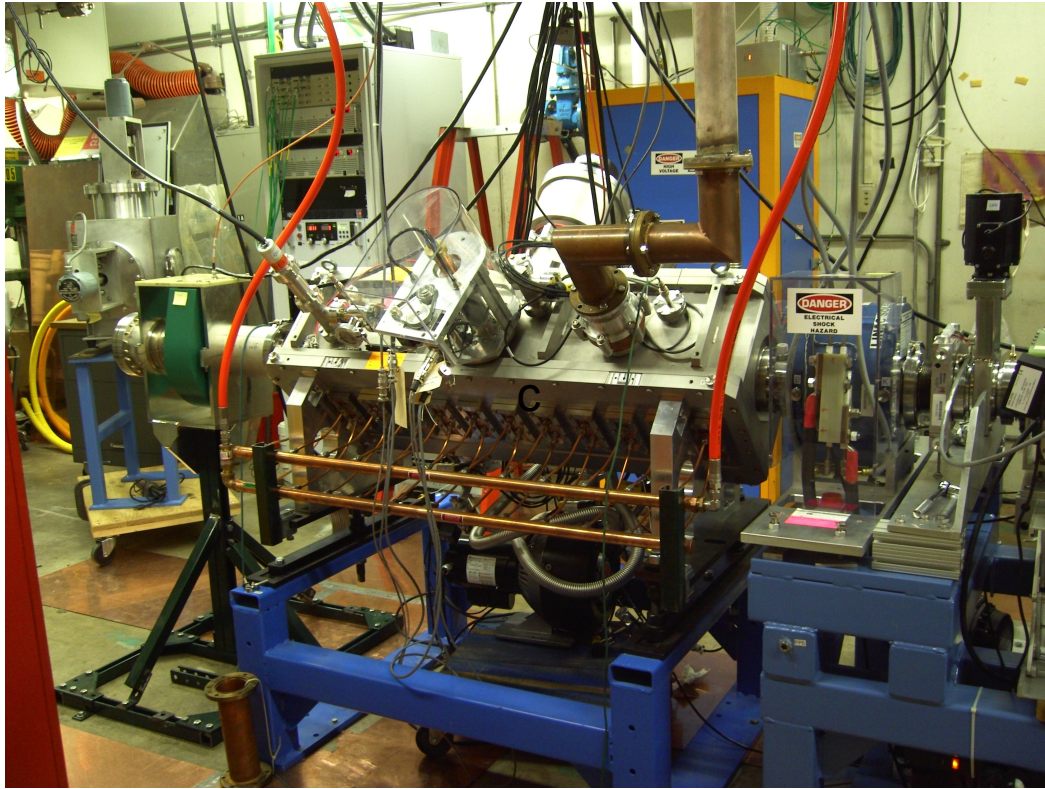
MEBT Status



Device	Status	Comments
MEBT Stand	Being designed	
Quad doublets	Being paired and tested	Adjustments being redone. 1 st pair still being measured. (03 Jan)

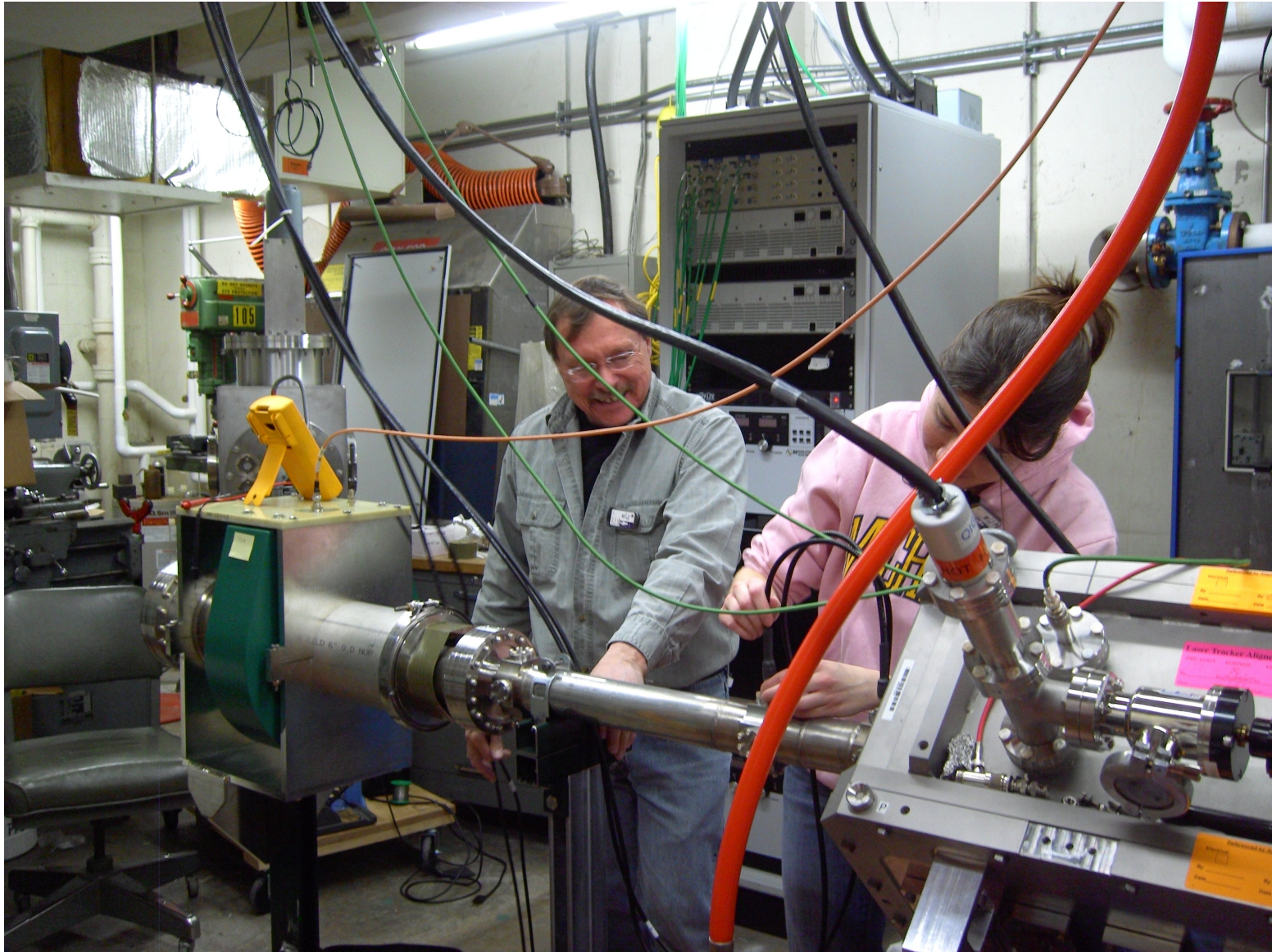
Are we buying PA for buncher?
 Ion pump, controller gauging status?

RFQ Status



Device	Status	Comments
PLL work	Continues ...	

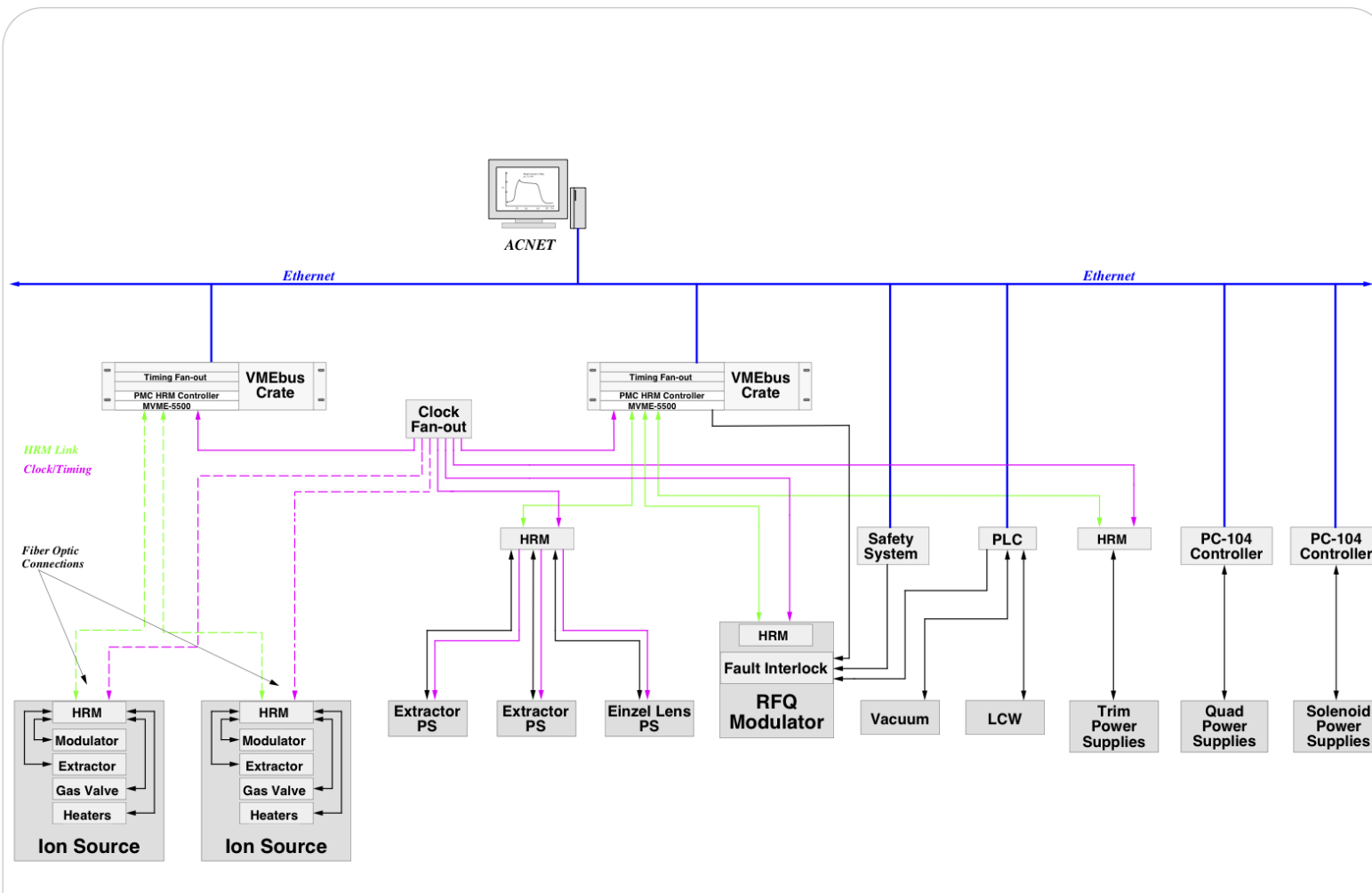
TOF being wired up



Test area, test stand and instrumentation

Device	Status	Comments
emittance probes can	Assembled and leak tested	12/28/11
TOF	3 BPM shells	We have them.
Faraday Cup	Needs zero length adapter	Have copper seals and zero length adapter ordered

Controls



Linac RFQ Upgrade Controls Block Diagram

Controls

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Safety

- Gary Lauten checked 750 keV operation.
Added Beam on/off indicator lights to the entrance of the test room. Not interlocked yet.

